

# Recovery Plan Action Status

Plan Name: Gray Bat

Plan Status: Final

Plan Date: 08-Jul-82

Lead Agency: USFWS

Lead Office: Columbia Ecological Services Field Office

(234-2132)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat (Myotis grisescens)	1	1.2	Public Education	Ongoing Current	Prior to FY 1995	FY 2009	U.S. Fish and Wildlife Service, Endangered Species Division	Other: Information and Education	Contract	With the documentation of Geomyces destructans that is the likely causative agent for White-nose syndrome, on five gray bats at MDC's Powder Mill Cave in Shannon County, MO, on 2 May 2010, there will be a need for extensive and long term outreach and public education to deal with the spread of Geomyces destructans and WNS, recommendations for bat and cave management, communication guidelines in response plans, etc.
Gray bat (Myotis grisescens)	1	1.2.2	Protect Bonanza Cave (AR)	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, U.S. Forest Service	Acquisition: Easement	Labor type not yet selected	See Appendix VI; MDC has established a long term endangered species lease agreement with the landowner
Gray bat (Myotis grisescens)	1	1.2.2	Protect Girards Cave (FL)	Obsolete			U.S. Fish and Wildlife Service, Endangered Species Division, Florida Game and Inland Fisheries Commission	Work type not yet selected	Labor type not yet selected	See Appendix VI

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat (Myotis grisescens)	1	1.2.2	Protect Moles Cave (MO)	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Endangered Species Division, Missouri Department of Conservation	Acquisition	Labor type not yet selected	See Appendix VI; acquired by MDC
Gray bat (Myotis grisescens)	1	1.2.2	Protect Old Indian Cave (IL)	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Florida Department of Natural Resources	Work type not yet selected	Labor type not yet selected	See Appendix VI; this cave is in FL, not IL
Gray bat (Myotis grisescens)	1	1.2.2	Protect Sanders Cave (AL)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition	Labor type not yet selected	See Appendix VI; this cave is under private ownership.
Gray bat (Myotis grisescens)	1	1.2.2	Protect White Buis Cave (TN)	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Tennessee Wildlife Resources Agency	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2	Protect Jesse James (KY)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Endangered Species Division	Other	Labor type not yet selected	See Appendix VI; Access controlled
Gray bat (Myotis grisescens)	1	1.2.2	Protect Chimney Cave (MO)	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition	Contract	See Appendix VI; new gate completed in 2004; the correct name for this cave is Moses Prater
Gray bat (Myotis grisescens)	1	1.2.2	Protect Georgetown Cave (AL)	Complete	Prior to FY 1995	Prior to FY 1995	National Park Service, U.S. Fish and Wildlife Service	Acquisition	Labor type not yet selected	See Appendix VI; under NPS ownership
Gray bat (Myotis grisescens)	1	1.2.2	Protect Tumbling Creek Cave (MO)	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Ozark Underground Laboratory	Management: Habitat Maintenance and Manipulation	Contract	See Appendix VI; new gate completed in 2004
Gray bat (Myotis grisescens)	1	1.2.2	Protect Bellamy Cave (TN)	Complete	FY 2007	FY 2007	U.S. Fish and Wildlife Service, Tennessee Wildlife Resources Agency	Management: Habitat Maintenance and Manipulation	Internal Administrative	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2	Protect Oaks Cave (TN)	Not Started			Tennessee Wildlife Resources Agency, U.S. Fish and Wildlife Service - Endangered Species, Realty	Acquisition	Labor type not yet selected	See Appendix VI; signed only

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat (Myotis grisescens)	1	1.2.2	Protect Nickajack Cave (TN)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Tennessee Valley Authority , Tennessee Wildlife Resources Agency	Management: Habitat Maintenance and Manipulation	Contract	See Appendix VI; owned and managed by the Tennessee Valley Authority (TVA)
Gray bat (Myotis grisescens)	1	1.2.2	Protect Beck Cave (MO)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Contract	See Appendix VI; fence completed in 1981
Gray bat (Myotis grisescens)	1	1.2.2	Protect Roaring Springs Cave (MO)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Missouri Department of Conservation	Work type not yet selected	Labor type not yet selected	See Appendix VI; sign placement only
Gray bat (Myotis grisescens)	1	1.2.2	Protect Geromes Cave (FL)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Florida Game and Inland Fisheries Commission	Acquisition	Labor type not yet selected	See Appendix VI; site designated at a Critical Wildlife Area by the Florida Fish and Wildlife Conservation Commission
Gray bat (Myotis grisescens)	1	1.2.2	Protect Key Cave (AL)	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Endangered Species Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency	Acquisition	Labor type not yet selected	See Appendix VI; USFWS National Wildlife Refuge
Gray bat (Myotis grisescens)	1	1.2.2	Protect Marvel Cave (MO)	Obsolete			U.S. Fish and Wildlife Service, Missouri Department of Conservation, Silver Dollar City	Work type not yet selected	Labor type not yet selected	This is a commercial cave associated with Silver Dollar City. Due to changes in the air flow of this cave, gray bats abandoned the site and it is no longer used by this species.
Gray bat (Myotis grisescens)	1	1.2.2	Protect Hambrick Cave (AL)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Alabama Department of Conservation and Natural Resources	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	See Appendix VI; protected by the Tennessee Valley Authority

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Maves Cave (MO)	Obsolete			Missouri Department of Conservation, U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI; the listing of such a cave for Missouri is erroneous because there is no cave in the state with this name. It is likely a typo for Mauss Cave in Camden Co. which was partially protected with a sign that was erected in 1978.
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Tobaccoport Cave (TN)	Not Started			Tennessee Wildlife Resources Agency, U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Saltpeter Cave (MO)	Not Started	Prior to FY 1995	Prior to FY 1995	U.S. Forest Service, U.S. Fish and Wildlife Service - Endangered Species, Realty	Acquisition	Labor type not yet selected	See Appendix VI;
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Overstreet Cave (KY)	Not Started			Kentucky State Nature Preserves Commission, U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Bat Cave (MO)	Not Started			Missouri Department of Conservation, U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI. This needs clarification as there are multiple caves with this name in Missouri. Because it was listed in the recovery plan as a priority 1 cave, it is assumed to be Bat Cave in Dent Co. If so, this cave has never been protected.
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Judges Cave (FL)	Not Started			Florida Game and Inland Fisheries Commission, U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Bone Cave (AR)	Not Started			Arkansas Game and Fish Commission , U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Cripps Mill Cave (TN)	Not Started			Tennessee Wildlife Resources Agency , U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Chrisman's Cave (KY)	Not Started			Kentucky State Nature Preserves Commission, U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Indian Cave (TN)	Not Started			Tennessee Wildlife Resources Agency , U.S. Fish and Wildlife Service - Endangered Species, Realty	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Cool Springs Cave (KY)	Not Started			U.S. Fish and Wildlife Service, Division of Realty, Kentucky State Nature Preserves Commission	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Holland Cave (KY)	Not Started			U.S. Fish and Wildlife Service, Division of Realty, Kentucky State Nature Preserves Commission	Work type not yet selected	Labor type not yet selected	See Appendix VI; the correct name for this cave is Carpenter's Cave; although not acquired, this cave is owned by a cooperative landowner and is protected.
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Cave Springs (IL)	Not Started			U.S. Fish and Wildlife Service, Division of Realty, U.S. Forest Service, State of Illinois	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Coffin Cave (MO)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Missouri Department of Conservation	Acquisition	Labor type not yet selected	See Appendix V1; this cave is now owned, protected, and managed by MDC

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Hubbards Cave (TN)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Nature Conservancy	Acquisition	Labor type not yet selected	See Appendix VI; this site is owned and managed by TNC.
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Pearson Cave (TN)	Complete	FY 2007	FY 2008	Tennessee Wildlife Resources Agency , U.S. Fish and Wildlife Service - Endangered Species, Realty	Acquisition	Labor type not yet selected	See Appendix VI; site is now under the ownership and management of the Tennessee Natural Resource Agency
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Santa (AL)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See Appendix VI
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Logan Cave (AR)	Complete	Prior to FY 1995	Prior to FY 1995	Arkansas Game and Fish Commission , U.S. Fish and Wildlife Service - Endangered Species, Realty	Acquisition	Labor type not yet selected	See Appendix VI; this cave is now part of the Logan Cave NWR established on March 14, 1969
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Cave Springs Cave (AL)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service	Acquisition	Labor type not yet selected	See Appendix VI; this cave is part of the Wheeler NWR that was established July 7, 1938
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Inca Cave (MO)	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Missouri Department of Conservation	Acquisition	Labor type not yet selected	See Appendix VI; the name for this cave is erroneous- the correct name is Great Spirit Cave. This cave was initially fenced in 1981 and the fence was replaced with a new gate in 2001; in 2002 the site was purchased by MDC.
Gray bat (Myotis grisescens)	1	1.2.2.1	Acquire Fern Cave (AL)	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See Appendix VI; established as Fern Cave NWR in 1981.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat ( <i>Myotis grisescens</i> )	2	1.2.3	Monitor roost sites	Ongoing Current	Prior to FY 1995	FY 2020	U.S. Fish and Wildlife Service, Endangered Species Division, State agencies	Work type not yet selected	Labor type not yet selected	Every 3 years. With the documentation of <i>Geomyces destructans</i> on 5 gray bats at MDC's Powder Mill Creek Cave in Shannon County, Missouri, on 2 May 2010 there was an increased need to monitor bats at roost sites, primarily at hibernacula and fall swarming sites to assess spread of this fungus. Although full blown white-nose syndrome (WNS) has not been documented for the species based on histological examination, WNS was confirmed in 5 new states (IN, KY, OH, NC, and TN) during the winter of 2010-2011. Gray bat sites affected with Gd in 2010 in MO were resurveyed in 2011 but no additional infections were observed or confirmed as predicted. Nor was the fungus confirmed on any gray bats in the 5 states listed above. Range-wide, the consensus of bat biologists is that the overall population trend for gray bats remains stable. In fact, there is limited information suggesting that some local populations continue to increase but there is insufficient trend analysis to support such a conclusion. The spread and potential impact of

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
										Gd and WNS will continue to be monitored. The FWS continues to work closely with other potentially affected parties in Missouri in the development of a state-wide WNS response plan. This plan is will soon be completed and will then be reviewed by an interagency team in the upcoming months. Surveys at gray bat hibernacula and maternity sites will continue to be monitored to further assess the potential impact of Gd/WNS on this species.
Gray bat ( <i>Myotis grisescens</i> )	1	1.2.4	Law Enforcement	Ongoing Current	Prior to FY 1995	FY 2020	U.S. Fish and Wildlife Service, Law Enforcement Division, State agencies	Work type not yet selected	Labor type not yet selected	



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Gray bat ( <i>Myotis grisescens</i> )	2	3	Monitor population trends	Ongoing Current	Prior to FY 1995	FY 2020	Virginia Department of Conservation & Natural Resources	Work type not yet selected	Labor type not yet selected	With the documentation of <i>Geomyces destructans</i> on 5 gray bats at MDC's Powder Mill Creek Cave in Shannon County, Missouri, on 2 May 2010 there will be an increased need to monitor bats at roost sites, primarily at hibernacula and fall swarming sites to assess spread of this fungus. Although full blown white-nose syndrome (WNS) has not been documented for the species based on histological examination, WNS is likely to be confirmed in gray bat populations during the winter of 2010-2011. Multiple proposals have been submitted by various partners to monitor the status of this species and the spread of <i>Geomyces destructans</i> and WNS. The discovery of <i>Geomyces destructans</i> on gray bats in Missouri in 2010 threatens the species with imminent extinction. Various actions have been taken to slow down the spread of WNS (e.g., incorporation or requirement of decontamination protocols, cave closures by various agencies, extensive research on the fungus, etc.), but it is currently unknown what

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
										actions will be needed to prevent significant population declines with this species as WNS continues to spread. Currently, a WNS state-wide action/response plan is being developed that will be an expansion of an action plan completed by the Missouri Department of Conservation in April 2010. All actions that may prevent a significant decline in the population of this species is being considered, including the possibility of captive rearing and propagation. Due to the documentation of Geomyces destructans as far west as Oklahoma in the late spring/early summer of 2010, WNS may threaten the existence of all species of hibernating bats in North America.